

WHAT IS CLAIMED IS:

1. A water heater comprising a heat source, heat exchange means for heating supplied water, and electrolytic water generating means, wherein a removing operation of scale having salt as main ingredient deposited in a water pipe of said heat exchange means is carried out using produced water of said electrolytic water generating means.
2. The water heater according to claim 1, wherein acid water which is one of the produced water of said heat exchange means is used in deposited salt removing processing for removing salt deposited in the water pipe of said heat exchange means, the water used in this processing is mixed with alkali water which is the other water of the produced water and discharged out.
3. A water heater comprising a heat source, ion exchange means for removing at least basic positive ion in supplied water, heat exchange means for heating water after the basic positive ion is removed, and electrolytic water generating means, wherein a regenerating operation of said ion exchange means is carried out using produced water of said electrolytic water generating means.
4. The water heater according to claim 3, wherein said ion exchange means includes positive ion removing means for removing positive ion and negative ion removing means for removing negative ion, acid water produced by said electrolytic water generating means is used for regenerating processing of said positive ion removing means, alkali water produced by said electrolytic water generating

means is used for regenerating processing of said negative ion removing means, both the former water and later water are mixed and discharged.

5. The water heater according to claim 1 or 3, wherein hot water supply time is totalized, and after the totalized hot water supply time reaches a predetermined value, the produced water of said electrolytic water generating means is used.

6. The water heater according to claim 1, wherein before the hot water supplying operation is carried out or when the temperature of said heat exchange means is low, salt deposited in a water pipe of said heat exchange means is removed.

7. The water heater according to any one of claims 1 to 4, wherein the supplied water is heated to 70°C or higher.

8. The water heater according to any one of claims 1 to 4, wherein said heat source is a vapor compression type heat pump.

9. The water heater according to claim 8, wherein carbon dioxide is used as a refrigerant of said vapor compression type heat pump.